Preliminary Classification:

Proposed Class:

Subclass:

NOTE:

"All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129." M.P.E.P. § 601, 7th ed.

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Director of the U.S. Patent and Trademark Office Mail Stop PATENT APPLICATION P.O. Box 1450 Alexandria, VA 22313-1450

### **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventor(s): Matti FLOMAN and Jani KLINT

WARNING: 37 C.F.R.§ 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(l) is filed supplying or changing the name or

names of the inventor or inventors."

For (title): Memory With Single and Dual Mode Access

## **CERTIFICATION UNDER 37 C.F.R. § 1.10\***

(Express Mail label number is mandatory) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date, <u>April 19, 2004</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EV 435648613 US</u>, addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

> Annemarie Maher or print name of person

Signature of person mailing paper

**WARNING:** Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" **WARNING:** 

mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed.

Reg. 56,439, at 56,442.

# 1. Type of Application This new application is for a(n) (check one applicable item below) ☑ Original (nonprovisional) Design □ Plant **WARNING:** "Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 37(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application. WARNING: Do not use this transmittal for the filing of a provisional application. If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION. Divisional Continuation Continuation-in-part (C-I-P)

### 2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designated the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120,121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 199, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:		G:	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application <b>must</b> be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).					
			The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.					
3.	Pap	ers	Enclosed					
	<u>13</u>	quired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 53 (Design) Application ges of specification ges of claims eets of drawings						
	WAI	RNIN	G: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).					
	NOTE:		"Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm (5/8 inch) down from the top of the page" 37 C.F.R. § 1.84(c)).					
			(complete the following, if applicable)					
			The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).					
			The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).					
		×	formal informal					
	В.	Oth	er Papers Enclosed					
	<u>0</u> <u>1</u> <u>0</u>	Pa	ges of declaration and power of attorney ges of abstract ner					
4.	Add	ditio	onal papers enclosed					
			endment to claims					
		the	filing fee. (At least one original independent claim must be retained for g purposes.)					
		bee	d the claims shown on the attached amendment. (Claims added have an numbered consecutively following the highest numbered original ms.)					

		Pre	limir	nary Amendment					
		Info	orma	tion Disclosure Statement (37 C.F.R. § 1.98)					
		Form PTO-1449 (PTO/SB/08A and 08B)							
		Cita	ation	s					
		Dec	Declaration of Biological Deposit						
		am	endr	sion of "Sequence Listing," computer readable copy and/or ment pertaining thereto for biotechnology invention containing ide and/or amino acid sequence					
				zation of Attorney(s) to Accept and Follow Instructions from entative					
		Spe	ecial	Comments					
		Oth	er						
5.	De	clara	atio	or oath (including power of attorney)					
NOTE:		A newly executed declaration is not required in a continuation or divisional application provided that the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47, then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)-(3).							
NOTE:		whic give resid	A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).						
NOTE:		"The inventorship of a nonprovisional application is that inventorship set forth in the oat declaration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). I cath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisi application, the inventorship is that inventorship set forth in the application papers filed purs to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.1 is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.1 1.41(a)(1).							
			End	closed					
			Exe	ecuted by					
				(check all applicable boxes)					
				inventor(s).					
				legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.					
			□ inve	joint inventor or person showing a proprietary interest on behalf of entor who refused to sign or cannot be reached.					
				This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F. R. § 1.47 is also attached. See item 13 below for fee.					
		X	Not	Enclosed					

NO.	TE:	com App may	pletion lication be, u	filing is a completion in the U.S. of an International Application or where the of the U.S. application contains subject matter in addition to the International, the application may be treated as a continuation or continuation-in-part, as the case illizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT U.S. APPLICATION CLAIMED.
				Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of <i>all</i> the above named inventor(s).
(	The	dec	laratio	on or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
				☐ Showing that the filing is authorized.  (not required unless called into question. 37 C.F.R. § 1.41(d))
6.	Inv	ento	orshij	o Statement
WA	RNIN	IG:	the o	named inventors are each not the inventors of all the claims an explanation, including vnership of the various claims at the time the last claimed invention was made, should bmitted.
The	e inv	ento	rship	for all the claims in this application is:
		The	e sam	e.
				or
				came. An explanation, including the ownership of the various claims ne the last claimed invention was made,
			is su	bmitted.
			will b	e submitted
7.	Lar	ngua	age	
NO	TE:	Eng of \$	lish. A 130.00	tion including a signed oath or declaration may be filed in a language other than in English translation of the non-English language application and the processing fee required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within as may be set by the Office. 37 C.F.R. § 1.52(d).
		X D		English Non English
				The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
8.	As	sign	men	
		×	An a	ssignment of the invention to Nokia Corporation
			(	s attached. A separate   "COVER SHEET FOR ASSIGNMENT DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or FORM PTO 1595 is also attached.
			× v	will follow.
NO	TE:	"If a	an assi lication	gnment is submitted with a new application, send two separate letters-one for the and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNII	vG:			cation is filed by				
				divisional ap				
						Reel_		·
							<b></b>	
9. Ce	rtifie	d Copy						
Ce	ertifie	d copy(ies	) of applica	ation(s)				
Co	untry	,		Appl	n. No.			Filed
Co	ountry	,		Appl	n. No.			Filed
from w	hich	priority is	claimed:					
		is (are) at will follow					•	
NOTE: The foreign application forms or declaration. 37 C.F.R. § 1.  NOTE: This item is for any foreign parent U.S. application or lunder 35 U.S.C. § 120 is its item 18 on the ADDED PAGOF PRIOR U.S. APPLICATION.				55(a) and 1.63. riority for which ternational Appl If entitled to prio ES FOR NEW A	the app ication i rity from	olication being from which thi n a prior foreig	filed directly re is application c n application, tl	lates. If any laims benefit nen complete
10. Fe	e Ca	lculation	(37 C.F.R.	§ 1.16)				
A.	X	Regu	ılar applica	tion				
				CLAIMS AS	FILE	)		
Number filed			Number Extr	а	Rate	37 C.F.R.	asic Fee § 1.16(a) § 1770.00	
Total C (37 C.I			<b>23</b> - 20 =	3	x	\$18.00 =	5	 i4.00
		t Claims § 1.16(b))	2 - 3 =	0	x	\$86.00 =		
		endent cl C.F.R. § 1.			+	\$290.00		
		Amendm	ent deleting	ng extra clair g multiple-de is not being	pender	ncies is enc	losed.	
NOTE:	ame	ndment, pri	or to the exp	re not paid on fi piration of the t e of fee deficiend	ime per	riod set for re	esponse by the	
		Filing	Fee Calc	ulation			\$8	324.00

(New Application Transmittal [4-1] page 6 of 11)

В	. 🗆	Design application (\$310.00 – 37 C.F.R. § 1.16(f))
		Filing Fee Calculation \$
c	. 🗆	Plant application
		(\$480.00 - 37 C.F.R. § 1.16(g))
		Filing Fee Calculation \$
11. Smal	l Entit	y Statement(s)
		ent(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and (are) attached.
WARNING:	whice pates which has divised 1.53 entime appoint to the description of the description o	tus as a small entity must be specifically established in each application or patent in the status is available and desired. Status as a small entity in one application or not does not affect any other application or patent, including applications or patents the are directly or indirectly dependent upon the application or patent in which the status been established. The refiling of an application under § 1.53 as a continuation, icon, or continuation-in-part (including a continued prosecution application under § (d)), or the filing of a reissue application requires a new determination as to continued lement to small entity status for the continuing or reissue application. A nonprovisional ication claiming benefit under 35 U.S.C. § 119(e), 120, 121, or 365(c) of a prior ication, or a reissue application may rely on a statement filed in the prior application or e patent if the nonprovisional application or the reissue application includes a reference e statement in the prior application or in the patent or includes a copy of the statement reprior application or in the patent and status as a small entity is still proper and red. The payment of the small entity basic statutory filing fee will be treated as such a rence for purposes of this section." 37 C.F.R. § 1.28(a)(2).
WARNING:	state	all entity status must not be established when the person or persons signing the ement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 6 <sup>th</sup> rev. 2, July 1996 (emphasis added).
		(complete the following, if applicable)
		Status as a small entity was claimed in prior application
		35 U.S.C. § □ 119(e), □ 120, □ 121, □ 365(c),
		and which status as a small entity is still proper and desired.
		☐ A copy of the statement in the prior application is included.
		Filing Fee Calculation (50% of <b>A</b> , <b>B</b> , or <b>C</b> above)
		\$
NOTE:	are file	cess of the full fee paid will be refunded if a small entity statement and a refund request d within 2 months of the date of timely payment of a full fee. The two-month period is endable under § 1.136. 37 C.F.R. § 1.28(a).
12. Requ	est fo	r International-Type Search (37 C.F.R. § 1.104(d))
		(complete, if applicable)
		prepare an international-type search report for this application at the en national examination on the merits takes place.

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# 13. Fee Payment Being Made at This Time

X	Not	t Enclosed						
	X	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16(e) can subsequently.)	n be paid					
	End	Enclosed						
		Filing fee	\$					
		Recording assignment (\$40.00 – 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$					
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached.  (\$130.00 - 37 C.F.R. §§ 1.47 and 1.17(i))	\$					
	o ·	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$					
		Processing and retention fee (\$130.00, 37 C.F.R. §§ 1.52(d) and 1.21(l))	\$					
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$					
NOTE:	aba as ti a pr	37 C.F.R. § 1.21(I) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 C.F.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(I) must be paid, within 1 year from the notification under § 53(f).						
	Tot	\$						
14. Me	ethod	d of Payment of Fees						
	Atta	ached is a □ check □ money order in the amount of \$						
	☐ Authorization if hereby made to charge the amount of \$							
		to Deposit Account No						
		to credit card as shown on the attached credit card infor authorization form PTO-2038	mation					
□ in		arge any additional fees required by this paper or credit any or manner authorized above. A duplicate of this transmittal is a						
NOTE:		s should be itemized in such a manner that it is clear for which purpose the R. § 1.22(b).	fees are paid. 37					

(New Application Transmittal [4-1] page 8 of 11)

# 15. Authorization to Charge Additional Fees

WARNING:		If no fees are to be paid on filing, the following items should <u>not</u> be completed.					
WARNING:		Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.					
		The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No					
		<ul> <li>□ 37 C.F.R. § 1.16(a), (f), or (g) (filing fees)</li> <li>□ 37 C.F.R. § 1.16(b), (c), and (d) (presentation of extra claims)</li> </ul>					
NOTE:	presented the 1	nuse additional fees for excess or multiple dependent claims not paid on filing or on later centation must only be paid or these claims canceled by amendment prior to the expiration of time period set for response by the P.T.O. in any notice of fee deficiency (37 C.F.R. § (d)), it might be best not to authorize the P.T.O. to charge additional claim fees, except ibly when dealing with amendments after final action.					
		☐ 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)					
		☐ 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a))					
		☐ 37 C.F.R. § 1.17 (application processing fees)					
WARNING:		"A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).					
•		☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))					
NOTE:	maili	re an authorization to charge the issue fee to a deposit account has been filed before the ng of a Notice of Allowance, the issue fee will be automatically charged to the deposit unt at the time of mailing the Notice of Allowance. 37 C.F.R. § 1.311(b).					
NOTE:	to sn is be n	F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement nall entity status must be filed in the application prior to paying, or at the time of paying, . sue fee." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must nade even if the fee is paid as "other than a small entity" and (b) no notification is required if thange is to another small entity.					

## 16. Instructions as to Overpayment

Customer No. 004955

		• •					
NOTE:	"Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).						
		Credit Account No					
		Refund					
		•					
Date: A	April	SIGNATURE OF PRACTITIONER					
Reg. No	o. <b>2</b>						
Tel. No	. (20	(type or print name of practitioner					
		Ware, Fressola, Van Der Sluys <u>&amp; Adolphson, LLP</u> P.O. (Correspondence) Address					
		Building Five, Bradford Green 755 Main Street, P.O. Box 224					

Monroe, CT 06468

	Incorporation by reference of added pages  (check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.)					
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed  Number of pages added				
		Plus Added Pages for Papers Referred to in Item 4 Above				
		Number of pages added				
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.				
		Number of pages added				
		Plus "Assignment Cover Letter Accompanying New Application"				
		Number of pages added				
X	Sta	tement Where No Further Pages Added				
		(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item.				
	[X]	This transmittal ends with this page				